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RAW SEQUENCE LISTING

DATE: 05/03/2001

PATENT APPLICATION: US/09/837,344

TIME: 11:58:27

Input Set : N:\Crf3\RULE60\09837344.txt

Output Set: N:\CRF3\05032001\I837344.raw

#2.

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

- 5 (i) APPLICANT: GUERIN-MARCHAND, Claudine
- 6 DRUILHE, Pierre
- 8 (ii) TITLE OF INVENTION: PEPTIDE SEQUENCES SPECIFIC FOR THE
- 9 HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE
- 10 OF STIMULATING THE T LYMPHOCYTES

12 (iii) NUMBER OF SEQUENCES: 46

14 (iv) CORRESPONDENCE ADDRESS:

- 15 (A) ADDRESSEE: Burns, Doane, Swecker & Mathis
- 16 (B) STREET: P.O. Box 1404
- 17 (C) CITY: Alexandria
- 18 (D) STATE: Virginia
- 19 (E) COUNTRY: United States
- 20 (F) ZIP: 22313-1404

22 (v) COMPUTER READABLE FORM:

- 23 (A) MEDIUM TYPE: Floppy disk
- 24 (B) COMPUTER: IBM PC compatible
- 25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- 26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

28 (vi) CURRENT APPLICATION DATA:

- 29 (A) APPLICATION NUMBER: US/09/837,344
- 30 (B) FILING DATE: 19-Apr-2001
- 31 (C) CLASSIFICATION:

37 (vii) PRIOR APPLICATION DATA:

- 34 (A) APPLICATION NUMBER: 08/462,625
- 35 (B) FILING DATE:
- 38 (A) APPLICATION NUMBER: FR 91 01286
- 39 (B) FILING DATE: 05-FEB-1991

41 (viii) ATTORNEY/AGENT INFORMATION:

- 42 (A) NAME: McGowan, Malcolm K.
- 43 (B) REGISTRATION NUMBER: 39,300
- 44 (C) REFERENCE/DOCKET NUMBER: 010830-078

46 (ix) TELECOMMUNICATION INFORMATION:

- 47 (A) TELEPHONE: (703) 836-6620
- 48 (B) TELEFAX: (703) 836-2021

51 (2) INFORMATION FOR SEQ ID NO: 1:

53 (i) SEQUENCE CHARACTERISTICS:

- 54 (A) LENGTH: 17 amino acids
- 55 (B) TYPE: amino acid
- 56 (C) STRANDEDNESS: single
- 57 (D) TOPOLOGY: linear

59 (ii) MOLECULE TYPE: peptide

61 (ix) FEATURE:

- 62 (A) NAME/KEY: Peptide
- 63 (B) LOCATION: 8
- 64 (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is

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65 Glu or Gly."
66      (x) PUBLICATION INFORMATION:
67          (H) DOCUMENT NUMBER: WO 92/13884
68          (J) PUBLICATION DATE: 20-AUG-1992
69      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 73      Leu Ala Lys Glu Lys Leu Gln Xaa Gln Gln Ser Asp Leu Glu Gln Glu
74          1              5              10              15
75          Arg
76      (2) INFORMATION FOR SEQ ID NO: 2:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 17 amino acids
79          (B) TYPE: amino acid
80          (C) STRANDEDNESS: single
81          (D) TOPOLOGY: linear
82      (ii) MOLECULE TYPE: peptide
83      (ix) FEATURE:
84          (A) NAME/KEY: Peptide
85          (B) LOCATION: 1
86          (D) OTHER INFORMATION: /note= "Amino Acid 1 wherein Xaa is
87      Ser or Arg."
88      (ix) FEATURE:
89          (A) NAME/KEY: Peptide
90          (B) LOCATION: 6
91          (D) OTHER INFORMATION: /note= "Amino Acid 6 wherein Xaa is
92      Glu or Asp."
93      (ix) FEATURE:
94          (A) NAME/KEY: Peptide
95          (B) LOCATION: 8
96          (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is
97      Arg or Leu."
98      (ix) FEATURE:
99          (A) NAME/KEY: Peptide
100          (B) LOCATION: 15
101          (D) OTHER INFORMATION: /note= "Amino Acid 15 wherein Xaa
102      is Glu or Gly."
103      (x) PUBLICATION INFORMATION:
104          (H) DOCUMENT NUMBER: WO 92/13884
105          (J) PUBLICATION DATE: 20-AUG-1992
106      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 118      Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa Gln
119          1              5              10              15
120          Gln
121      (2) INFORMATION FOR SEQ ID NO: 3:
122      (i) SEQUENCE CHARACTERISTICS:
123          (A) LENGTH: 17 amino acids
124          (B) TYPE: amino acid
125          (C) STRANDEDNESS: single
126          (D) TOPOLOGY: linear
127      (ii) MOLECULE TYPE: peptide

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133      (ix) FEATURE:
134          (A) NAME/KEY: Peptide
135          (B) LOCATION: 2
136          (D) OTHER INFORMATION: /note= "Amino Acid 2 wherein Xaa is
137 Ser or Arg."
139      (ix) FEATURE:
140          (A) NAME/KEY: Peptide
141          (B) LOCATION: 7
142          (D) OTHER INFORMATION: /note= "Amino Acid 7 wherein Xaa is
143 Glu or Asp."
145      (ix) FEATURE:
146          (A) NAME/KEY: Peptide
147          (B) LOCATION: 9
148          (D) OTHER INFORMATION: /note= "Amino Acid 9 wherein Xaa is
149 Arg or Leu."
151      (ix) FEATURE:
152          (A) NAME/KEY: Peptide
153          (B) LOCATION: 16
154          (D) OTHER INFORMATION: /note= "Amino Acid 16 wherein Xaa
155 is Glu or Gly."
157      (x) PUBLICATION INFORMATION:
158          (H) DOCUMENT NUMBER: WO 92/13884
159          (J) PUBLICATION DATE: 20-AUG-1992
161      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 163      Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa
164          1             5             10             15
166          Gln
168 (2) INFORMATION FOR SEQ ID NO: 4:
170      (i) SEQUENCE CHARACTERISTICS:
171          (A) LENGTH: 17 amino acids
172          (B) TYPE: amino acid
173          (C) STRANDEDNESS: single
174          (D) TOPOLOGY: linear
176      (ii) MOLECULE TYPE: peptide
178      (ix) FEATURE:
179          (A) NAME/KEY: Peptide
180          (B) LOCATION: 3
181          (D) OTHER INFORMATION: /note= "Amino Acid 3 wherein Xaa is
182 Ser or Arg."
184      (ix) FEATURE:
185          (A) NAME/KEY: Peptide
186          (B) LOCATION: 8
187          (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is
188 Glu or Asp."
190      (ix) FEATURE:
191          (A) NAME/KEY: Peptide
192          (B) LOCATION: 10
193          (D) OTHER INFORMATION: /note= "Amino Acid 10 wherein Xaa
194 is Arg or Leu."

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196      (ix) FEATURE:
197          (A) NAME/KEY: Peptide
198          (B) LOCATION: 17
199          (D) OTHER INFORMATION: /note= "Amino Acid 17 wherein Xaa
200 is Glu or Gly."
202      (x) PUBLICATION INFORMATION:
203          (H) DOCUMENT NUMBER: WO 92/13884
204          (J) PUBLICATION DATE: 20-AUG-1992
206      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 208      Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln
209          1          5          10          15
W--> 211      Xaa
213      (2) INFORMATION FOR SEQ ID NO: 5:
215          (i) SEQUENCE CHARACTERISTICS:
216              (A) LENGTH: 17 amino acids
217              (B) TYPE: amino acid
218              (C) STRANDEDNESS: single
219              (D) TOPOLOGY: linear
221          (ii) MOLECULE TYPE: peptide
223      (ix) FEATURE:
224          (A) NAME/KEY: Peptide
225          (B) LOCATION: 1
226          (D) OTHER INFORMATION: /note= "Amino Acid 1 wherein Xaa is
227 Glu or Gly."
229      (ix) FEATURE:
230          (A) NAME/KEY: Peptide
231          (B) LOCATION: 4
232          (D) OTHER INFORMATION: /note= "Amino Acid 4 wherein Xaa is
233 Ser or Arg."
235      (ix) FEATURE:
236          (A) NAME/KEY: Peptide
237          (B) LOCATION: 9
238          (D) OTHER INFORMATION: /note= "Amino Acid 9 wherein Xaa is
239 Glu or Asp."
241      (ix) FEATURE:
242          (A) NAME/KEY: Peptide
243          (B) LOCATION: 11
244          (D) OTHER INFORMATION: /note= "Amino Acid 11 wherein Xaa
245 is Arg or Leu."
247      (x) PUBLICATION INFORMATION:
248          (H) DOCUMENT NUMBER: WO 92/13884
249          (J) PUBLICATION DATE: 20-AUG-1992
251      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
W--> 253      Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu
254          1          5          10          15
256      Gln
258      (2) INFORMATION FOR SEQ ID NO: 6:
260          (i) SEQUENCE CHARACTERISTICS:
261              (A) LENGTH: 17 amino acids

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262          (B) TYPE: amino acid
263          (C) STRANDEDNESS: single
264          (D) TOPOLOGY: linear
266      (ii) MOLECULE TYPE: peptide
268      (ix) FEATURE:
269          (A) NAME/KEY: Peptide
270          (B) LOCATION: 2
271          (D) OTHER INFORMATION: /note= "Amino Acid 2 wherein Xaa is
272 Glu or Gly."
274      (ix) FEATURE:
275          (A) NAME/KEY: Peptide
276          (B) LOCATION: 5
278          (D) OTHER INFORMATION: /note= "Amino Acid 5 wherein Xaa is
279 Ser or Arg."
281      (ix) FEATURE:
282          (A) NAME/KEY: Peptide
283          (B) LOCATION: 10
284          (D) OTHER INFORMATION: /note= "Amino Acid 10 wherein Xaa
285 is Glu or Asp."
287      (ix) FEATURE:
288          (A) NAME/KEY: Peptide
289          (B) LOCATION: 12
290          (D) OTHER INFORMATION: /note= "Amino Acid 12 wherein Xaa
291 is Arg or Leu."
293      (x) PUBLICATION INFORMATION:
294          (H) DOCUMENT NUMBER: WO 92/13884
295          (J) PUBLICATION DATE: 20-AUG-1992
297      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 299      Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys
300          1                      5                      10                      15
301          Leu
302
304      (2) INFORMATION FOR SEQ ID NO: 7:
306      (i) SEQUENCE CHARACTERISTICS:
307          (A) LENGTH: 17 amino acids
308          (B) TYPE: amino acid
309          (C) STRANDEDNESS: single
310          (D) TOPOLOGY: linear
312      (ii) MOLECULE TYPE: peptide
314      (ix) FEATURE:
315          (A) NAME/KEY: Peptide
316          (B) LOCATION: 3
317          (D) OTHER INFORMATION: /note= "Amino Acid 3 wherein Xaa is
318 Glu or Gly."
320      (ix) FEATURE:
321          (A) NAME/KEY: Peptide
322          (B) LOCATION: 6
323          (D) OTHER INFORMATION: /note= "Amino Acid 6 wherein Xaa is
324 Ser or Arg."
326      (ix) FEATURE:

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/837,344

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TIME: 11:58:28

Input Set : N:\Crif3\RULE60\09837344.txt

Output Set: N:\CRF3\05032001\I837344.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18